

Congo - TN Rudi Klos DK7PE plans to operate from the Congo July 11-21. He has applied for the callsign **TN0CW**. On 160 meters, watch 1827 20-2100Z for Europe, 1930-2030 for Japan, 0330-0500Z for North America, and 01-0500Z for South America. Sunrise 0509Z; sunset 1703Z. QSL home address: Kleine Untergasse 25, D-55268 Nieder-Olm, Germany.

Tonga - A3 Masa Mihara JE1DXC will be active from Tongatapu I. (OC-049) in Tonga July 14-27. Callsign not yet known. He'll be on 40-10 meters, including the new bands, on CW and SSB, with some 75-80-meter operation. He'll look for Europe and the US east coast on 30 and 20 meters. Sunrise 1900Z; sunset 0550Z. QSL direct to his home address of 4-22-23 Motobuto, Urawa, Saitama 336, Japan or via the JA bureau. (Japan DX News.)

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Marianas - KH0 Tosy Moriyama JA6VZB will sign **AH0T** July 14-17 from Rota I. (OC-086), on all bands, including the new bands, on CW, SSB, and possibly RTTY. QSL to M. Cho JA6BSM, 12 Harumachi, Kasuyacho, Kasuyagun, Fukuoka, Japan (not via **AH0T** nor JA6VZB).

Reserve Your Island - IARU HF

- **9V1ARU** is a multi-op Headquarters entry in the IARU HF Championship July 9-10.
- **OX3/WJ2O** is active July 8-13, with a CW/SSB entry in the contest. Outside the test, Dave will concentrate on CW and the new bands. QSL home call.
- **ZF2JI** will be a single-op entry in the contest, operated by John Attaway K4IIF; QSL to KG6AR.

Shortly Noted

- **OY/SM3TLG** operates CW 10 kHz up from the bottom of the bands until July 10. QSL SM3TLG. (DXNL.)
- **P40WF** and **P40WH** are Frank Wolczak WA0IWF and Duke Humphrey WD0EWH respectively, until July 15, on the usual DX frequencies. QSL home calls.
- **N4MU/HH2** and **W6RCL/HH2** are CNN reporters on Haiti; try 14190 kHz at 0300Z.
- **R3AREX/5H** in Tanzania is part of a rescue mission; try 14292 kHz at 0700 and 1700Z. QSL to RW3AH. (W1AW.)
- **LX75KGS** will be active from Luxembourg July 17-30, on all bands, CW and SSB. QSL to LX1NO. (OPDX.)
- **SV2ASP/A** likes 14190, 28390, and 18145 kHz 09-1100Z weekends. (OPDX.)
- **TM5RAE** commemorates the first balloon raid in France July 28-Aug. 15, operated by F6BFI. (LNDX.)
- **TK/F6AUS** is active from Corsica July 15-18.
- **K1MEM** Jim Dionne is the New England Division representative on the DX Advisory Committee, effective July 1. Jim replaces Bill Shipp KC1AG.
- **SSB Nets:** CT1EDX MCs the Portuguese DX net on 18150 kHz at 1830-1930Z. Spots: 14226.5 kHz (11,18Z): JT1BV JT1CC VR6DB 4X6UJ YB5AQG T32LN 7X2LS UX0ZZ; 14247 (21Z): 9H1EU SV5TS CT1CSV 9A7AA FS5PL JY5IN YL1AA ER5DX HC8JG 9K2MU LU8HLI.

Islands On The Air

- Tom Quinian **W0GLG** and Mark **N1KDS** will be **/KL7** from St. Paul Island in the Pribilofs (NA-028) July 15-22. Try the IOTA frequencies on 10, 15, and 20 meters. QSL to W0GLG. 24825 Shiloh Lane, Conifer CO 80433.
- **VY1AU** is the call of the Herschel Island (NA-193) multi-op DXpedition July 22-28. Watch 14130, 14260, 21260, and 40 and 80 meters. Operators are Bill VY1AU, Brian VY1BE, Richard N6IV, Larry KF6XC, Carl VE8CF and John NL7TB. QSL direct only to John Reisebauer NL7TB, 1961 Norene St., Anchorage AK 99508.
- **ES0/OH3LYA** is active from Muhu I. (EU-034) until July 12 on CW and SSB, on all HF bands. **ES0/OH3MFT** is active on VHF and Oscar-13. QSL via the OH bureau to their home callsigns.
- **7S7CA** is on Oland I. (EU-037) July 8-10; QSL to SK7CA. (DXLoggen.)
- **SM4DHF/2** is on Holmon I. (EU-135) July 29-31.
- **VE8RAF** on Ellesmere I. (NA-008) is operated by G0BHA until Aug. 12.
- **Vestmannaeyjar** group (EU-071) is set to be activated by a German group July 23-Aug. 20, including satellite QSOs.
- **OZ1ISY** and **OZ6ACD** are active from Romo I. (EU-125) July 9-11; QSL to OZ6ACD direct or via the OZ bureau.
- **VK8TI** will be active on 40, 20, and 15 meters from Truant I. (OC-185) July 15-17, weather permitting. QSL to the Gove Amateur Radio Group, Arnhem Land, P. O. Box VK8TI, Gove, 0881 Northern Territory, Australia.

Propagation

Forecast and Historical Data

Day	Forecast	27 Days Before				55 Days Before			
July 1994		Date	Flux	A	K	Date	Flux	A	K
8	Low Normal	6/11	86	15/16	2	5/14	90	15/22	2
9	Low Normal	6/12	86	22/21	3	5/15	91	18/30	3
10	High Normal	6/13	85	13/11	3	5/16	91	26/30	3
11	Low Normal	6/14	85	14/14	3	5/17	95	16/16	2
12	High Normal	6/15	88	08/09	2	5/18	94	19/18	2
13	High Normal	6/16	88	03/06	1	5/19	91	15/13	1
14	High Normal	6/17	84	09/09	2	5/20	90	09/09	1
15	Low Normal	6/18	78	13/15	1	5/21	88	06/07	2
16	Low Normal	6/19	77	20/24	3	5/22	85	07/09	2
17	High Normal	6/20	76	12/11	2	5/23	81	06/08	2
18	High Normal	6/21	74	11/10	2	5/24	78	18/19	3
19	High Normal	6/22	72	04/09	0	5/25	74	21/20	2
20	High Normal	6/23	73	01/05	1	5/26	71	11/14	2
21	High Normal	6/24	73	02/05	1	5/27	70	04/06	1
22	Above Normal	6/25	73	00/04	0	5/28	70	23/25	5
23	Below Normal	6/26	74	17/25	3	5/29	69	30/37	4
24	Low Normal	6/27	73	24/23	2	5/30	69	35/44	3
25	Low Normal	6/28	74	11/15	3	5/31	69	29/32	4

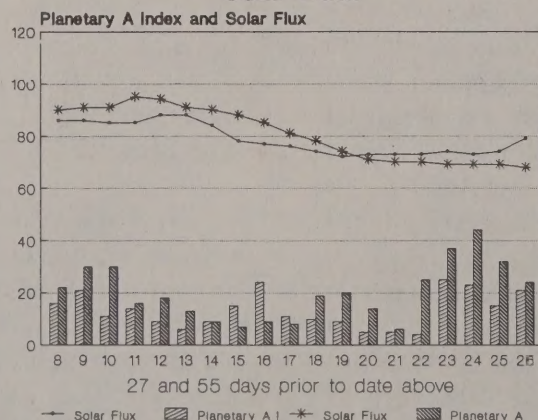
Propagation Watch

The Killer Koronal hole has largely dissipated, after causing minimal disturbance to the bands at the end of June into early July. No, conditions were not good, but they were not nearly as bad as they have been during previous appearances of this large, persistent solar anomaly. This suggests that conditions at the end of July will be better than they have been at similar times during the past six months.

Unfortunately for DXers, seasonal depression of maximum useable frequencies (MUFs) has severely limited high-band propagation. 90-day average solar flux has dropped below 80, a clear sign of the demise of Sunspot Cycle 22. Outside of some excellent multi-hop E-skip on 10 and 6 meters, the higher bands have been unproductive. This trend should continue for the next two months, with possible improvement in September.

20, 30, and 40 meters are the best DX bands, with 20 meters providing the majority of long-haul contacts. (30 meters is actually in excellent shape, but lack of activity is the limiting factor.) Good hunting!

Solar Data



Portuguese Callsigns

by José Emmanuel Ribeiro de Sá CT1EEB

The Portuguese Telecom has changed the amateur radio callsign allocations. Regular prefixes remain the same: **CT1** and **CT4** from the mainland; **CU** for the Azores; and **CT3** for Madeira. Special prefixes from the mainland are now limited to **CT2 CT5 CT6 CT7 CT8, CQ1 CQ2 CQ4 CQ5 CQ6 CQ7 CQ8**, and **CS1 CS2 CS4 CS5 CS6 CS7 CS8**. Azores special prefixes are **CU1-9**. Madeira special prefixes are **CT3 CT9 CQ3 CQ9 CS3 CS9** and **XX** (except **XX9**). **CR** prefixes are no longer issued to amateurs; instead they are reserved for the National Civil Protection service. Zero (0) prefixes are now reserved for VHF/UHF repeaters and are not available for general use. Single-letter suffix callsigns are reserved for multi-op contest and DXpedition use. Single-operator special callsigns will retain the regular suffix; thus **CS6EEB** is **CT1EEB**. Foreigners will sign **CT1/** home call. There are a few **CR**-prefix stations currently active: **CR5A CR5EBD CR6EDX CR7A CR8A CR8BWW**.

IOTA Frequencies

At its June 4th meeting, the Islands On The Air Committee set IOTA spot frequencies. For CW, try 3530, 7030, 10115, 14040, 18098, 21040, 24920, and 28040 kHz. On SSB: 3755, 7055, 14260, 18128, 21260, 24950, 28460, and 28560 kHz. "The IOTA Committee would like to make it clear that these frequencies will in no way be reserved exclusively for IOTA contacts but will be shared with others on a normal non-interference basis." (DX News Sheet.)

DXCC Processing Status

by Bill Kennamer K5FUV

The DXCC desk continued to gain on their backlog in June. As of July 1, the number of unprocessed applications stood at 334, with 40,546 QSL cards. This is down from the month-earlier figures of 447/49,835. They received 704 applications with 62,500 QSL cards in June, and processed 817 with 71,789 cards, up 13% from May. Applications being sent out at the end of June were received less than two weeks earlier. (A few applications received prior to that time were waiting for paper records to be converted to computer format, and had not yet been processed.) Applications and QSLs are up 13% and 25% respectively over 1993.

Islands On The Air, Continued

- **OX3/G3ZAY** is active from Angmassalik I. (NA-151) July 8-11; QSL to Martin Atherton G3ZAY, 41 Enniskillen Road, Cambridge, CB4 1SQ, England.
- **XQ8ABF** until July 11 is CE8ABF on Tierra del Fuego (SA-008). Try 1835 or 1848 kHz at 0300Z, 3799 or 3748 00-0300Z, 7053-65 21-0000Z, and the IOTA frequencies of 14260, 21260, and 28460 kHz at other times. QSL CE8ABF.
- **TM7I** is active from Ouessant (EU-065) and Glénans (EU-094) July 22-31 on 3760, 7060, 14260, and 21260 kHz.
- **IK0OZD** will be active from Capri I. (EU-031) July 9-16.
- **CS5C** is on Culatra I. (EU-145) July 30-31.

B • A • N • D • P • A • S • S

Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.
All "portable" calls listed with country of operation first, regardless of format used on the air.

RTTY

VR6ME 14071 0401 21 CA

80 Meters

ZL2AGY 3504 1045 19 FL

75 Meters

HC1JOL 3795 1011 24 AR
V85PB 3795 1050 27 AR
V85PB 3795 1209 27 ID

40 Meters

3B8CF 7004 0235 23 IA
9J2BO 7006 0530 28 IA
BV2TA 7011 1115 24 VA
CO2KG 7008 1041 20 MI
EU3FT 7003 0036 20 FL
GI3KOT 7008 0242 25 MI
HC5AI 7008 1039 24 MI
HLØVKA 7011 1120 22 IA
ISØOMH 7001 0303 22 IL
TO9IS 7007 2318 24 FL
V63BC 7010 1100 16 OH
VP8GAV 7006 0440 25 IA
VQ9TP 7004 1211 23 AL
YS1DRF 7004 0038 20 FL
YS1XS 7008 1003 21 MI
Z33KAW 7008 0253 25 MI
ZL1RA 7004 1100 21 OH
ZL8BX 7001 1110 2 FL

30 Meters

3B8CF 10102 0344 25 IL
6W6JX 10104 2141 26 FL
9A2TI 10101 0017 26 FL
ES5TX 10104 2356 2 FL
FG5GH 10110 1107 2 FL
FO5BI 10102 0449 23 IL
HK4CZE 10106 0103 26 SC
JY8ED 10102 2339 24 FL
LU1BQU 10103 0210 20 GA
LZ2LP 10106 0245 23 IL
OA4FW 10106 0400 25 IL
OK1FFV 10104 0349 25 IL
OM3CMM 10104 0255 25 IL
OM3CQR 10101 0033 20 FL
T92X 10100 0012 26 FL
TO9IS 10108 0008 26 FL
URØIX 10119 0211 24 GA
YL2PQ 10101 0027 2 FL
YP7ØØBV 10109 0224 21 GA
ZF2AH 10103 0351 27 IL
ZL3GQ 10105 0450 23 IL

20 Meter CW

4J3M 14002 2051 15 SC
4K2BY 14016 0051 22 VA
4K2MAL 14021 0520 22 IL

4K4POL 14022 1428 24 IL
4K9W 14010 0252 21 VA
4L1YY 14015 0250 22 IA
4L1ZG 14016 0230 21 CA
4N7DW 14011 0046 23 MI
4U1ITU 14026 2345 20 MI
5NØ/ 14015 2030 1 FL
DL9GMM
9H3GQ 14036 2032 16 NY
9K2MU 14019 2210 22 IA
BV2TA 14008 1100 24 OH
BV4JB 14025 1130 28 IA
BV4JG 14022 1143 20 AL
BY4AA 14024 1225 25 IA
BZ5HAN 14005 1038 25 MA
CP94USA 14020 0223 21 VA
CU2ARA 14029 2257 1 FL
DU3/ * 14002 2135 1 FL
W4NXXE
EA8BYW 14024 1055 26 FL
EK4JJ 14024 0410 22 IA
ER1CW 14028 2228 23 FL
ER3MM 14033 2130 17 NY
ES1WN 14013 2209 24 FL
ES2RW 14036 2327 23 FL
EU7HA 14008 0346 22 ID
EV1F 14022 1559 21 VA
FG5FZ 14004 0155 24 CA
FM5CW 14020 2303 1 FL
FR5DD 14021 0331 21 VA
GJ4VXE 14020 2258 22 MA
H44BC 14200 0410 23 IA
HC6CR 14018 0310 21 CA
HH2JFO 14020 2116 26 FL
HI3AB 14026 0456 24 IL
HI3AN 14002 0012 30 FL
HT1T 14009 2230 19 FL
JY8ED 14002 0031 28 FL
JY8FN 14005 0100 16 VA
JA1NUT 14029 1241 15 NY
LZ4YJ 14004 0018 23 MI
NP4A 14025 1803 25 ID
OHØMM 14027 2155 24 FL
OM5XX 14008 2341 22 SC
PJ2AM 14005 2252 23 FL
SPØFOX 14003 1910 23 SC
ST2AA 14022 2212 24 FL
SV1AKX 14027 2330 20 NY
SV1BSX 14009 2133 23 FL
SV7BAY 14020 2323 23 FL
T32Z 14003 0346 21 CA
T92A 14032 2229 18 GA
TN6RR 14003 2208 29 FL
U3AZ 14022 0325 22 IL
UA2FCB 14035 2036 1 FL
UN7JX 14009 0115 22 IA
UN9LR 14026 0350 24 SC
V29PE 14007 2256 30 FL
V44KAO 14027 0005 21 CA
V73C 14032 0335 20 SC
VP2MH 14030 2144 6 NY
VP2MT 14040 2039 1 FL
VR2IH 14007 1225 25 IA
VU2TRI 14008 0136 26 SC

XQØYAF 14002 0220 22 IA
YI9CW 14007 1831 2 FL
YS1XS 14017 1252 2 FL
Z32DJ 14031 2021 22 NY
ZA1AJ 14029 2226 28 FL
ZA1C 14006 2302 30 FL
ZF2AH 14010 2308 30 FL
ZF2GT 14025 2325 23 FL

20 Meter SSB

3D2RF 14195 0438 16 CA
4J3M 14268 0435 25 IA
4L4TL 14287 0349 25 MA
4S7EA 14190 0144 25 ME
4U1UN 14180 2316 22 MD
4X4NJ 14195 1425 24 CA
4X6UJ * 14226 0331 25 MD
5NØDEY 14159 2131 20 SC
9K2HN 14216 0210 25 IA
9K2ZZ 14194 2200 21 IA
9M8DB 14180 1400 18 OH
A92FF 14254 0250 23 MA
AH8A 14195 0335 26 IA
BZ1QL 14177 1101 25 AR
BZ5DX 14185 1248 23 AR
BZ5HAN 14185 0956 25 AR
C53HG 14197 2310 26 IA
DU1COO 14195 1115 23 IL
DU1KT 14190 1129 23 AR
DU9RG 14190 1112 23 AR
EW3LB 14223 0428 25 MA
FS5PL 14197 2126 23 MD
GB2HC 14180 0143 24 SC
GD4PTV 14227 1927 23 SC
GMØKCY 14260 2116 15 SC
HL5AWS 14258 1031 25 AR
HL9FC 14190 1211 23 AR
HSØZAZ 14207 1200 24 IA
HZ1AB 14216 1440 24 CO
JD1BIE 14165 1145 23 AR
JW5II 14176 0009 28 AR
KH3/ 14209 1233 23 AR

KA3HMS
LA/DF8KF 14260 1102 25 MA
LA2PHA 14226 0341 25 MD
LY3MM 14218 0128 23 MA
OHØMM 14216 1433 24 CO
OM5XX 14195 2110 23 MD
OY6FRA 14216 0055 25 IA
PYØTUP 14247 0051 29 CA
RXØLWC 14188 1421 24 IL
SM5GZ 14226 0347 25 MD
SP2CYK/1 14263 1106 25 MA
SV5AZP 14215 2117 24 AR
SV5TS 14268 0034 27 MA
TU2JL 14264 2137 16 SC
UN7CC 14180 2200 25 AR
US4IXQ 14209 0403 25 MD
UT7WZA 14240 200 24 CO
UX2MF 14260 0134 24 SC
V73CM 14260 1047 23 IL
V85BJ 14195 1229 23 AR
V85PB 14220 1217 23 AR
VS6CT 14195 1545 25 CA

VU2AU 14191 0234 25 VA
VU2EVG 14184 0206 25 ME
VU2XP 14178 0202 25 ME
XX9AS 14197 1254 23 AR
YB8ASX 14216 1218 23 IL

17 Meter CW

4K2MAL 18069 2231 25 ID
PYØTUP 18070 2315 22 SC

17 Meter SSB

5W1GC 18115 0206 25 AR
BZ1QL 18140 1328 25 FL
EA8BY 18131 0210 24 IL
EA8BYR 18132 0109 24 SC
IK4GRO 18122 1844 23 SC
ZL2AAG 18147 0411 15 CA

15 Meter CW

OA4CWR 21012 2225 25 FL
TR8XX 21023 1721 25 FL

15 Meter SSB

4U1UN 21202 1850 19 OH
C92WF 21250 1407 25 MD

6 Meters

CO2KK 50124 1435 27 IL
CT4KQ 50110 1952 19 ME
F5QT 50110 1845 27 IL
FP5EK 50102 2027 17 ME
G8VST 50112 1957 19 ME
I4SJZ 50102 1942 19 ME
I5FLN 50102 1950 19 ME
I5MXX 50102 1945 19 ME
OZ5IQ 50112 1959 19 ME
PA2LSO 50117 1955 19 ME
PA3FYM 50112 1955 19 ME
TG9AJR 50126 0011 27 IL
TI2NA 50124 1615 27 IL
V44KAI 50110 2313 26 IL
VP9GE 50110 1823 27 IL

S	M	T	W	T	F	S
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23

Current and Future DXpeditions

(Changes and hot info in boldface.)

DXCC Country	Prefix	Callsign	Dates	Issue
Albania	ZA	ZA1E	21295 1500Z	I743
Angola	D2/HB9AMO		to July	I740
	D2TT?		June 16-July 16	I743
Aruba	P4	P40WF WH	to July 15	I746
Ascension Island	ZD8	ZD8OK	Aug.-Jan	I743
Aves island	YV0	YW0RCV	July 21-25	I745
Belau	KC6/	SM6FJY	July 11-24	I741
Belize	V3	V31PA	to Sept.	I740
	V31PH WE		July 7-14	I745
Benin	TY	TY1IJ	to July	I741
Cambodia	XU	XU7VK	to Feb. '95	I724
Cayman Islands	ZF	ZF2AH JT QM	to July 15	I745
		ZF2JI	IARU HF	I746
Chad	TT	TT8PS	to Aug.	I740
Congo	TN	TN0CW?	July 11-21	I746
Corsica	TK/	F6AUS	July 15-18	I746
Egypt	SU	SU1KR	now active	I744
Faroes	OY/SM3TLG		to July 10	I746
Ghana	9G	by 4X4MS	one year	I743
Greenland	OX	OX3/WJ2O	July 8-13	I746
Haiti	HH	N4MU W6RCL	now	I746
Iran	EP	EP2DL	14151 0045Z	I743
		EP2ASZ	20M CW 2200Z+	I743
Iraq	YI9CW		18074 14-16Z	I732
ITU Headquarters	4U1ITU		July 7-10	I742
Kerguelen	FT	FT5XJ	14188 18Z	I737
Kyrgyzstan	EX	/UAs	to Sept. 25	I744
Liechtenstein	HB0/PAs		July 6-11	I741
Luxembourg	LX	LX75KGS	July 17-30	I746
Malawi	7Q	7Q7XT?	July 17-Aug. 5	I743
M-V Island	R1MVI		July 30-31	I742
Marianas	KH0	AH0T	July 14-17	I746
New Caledonia	FK8/F6EDV		now active	I744
Niger	5U	5U7Y	now active	I726
Nigeria	5N0/DL9GMM		to Dec.	I731
North Cooks	ZK1AT		3784 07Z Sun.	I729
	ZK1KH		soon?	I745
Philippines	DU7/SM0CNS		July 1-31	I743
St. Paul Island	CY9CWI		Aug. 12-26	I742
	CY9/ N0TG		Sept. 19-25	I741
St. Pierre & Miquelon	FP/KA1NCN		July 19-25	I739
South Africa	ZS	ZS6IR	July 1-21	I743
Sri Lanka	4S7/ON4IPA		to August	I736
Svalbard	JW	JW4LN LB3RC/JW	Aug. 1-20	I745
Tajikistan	EY	EY8MM	3505/3795 02Z	I729
Tanzania	5H	R3AREX	now	I746
Tokelau	ZK3	ZK3ALF?	July 13-18	I745
Tonga	A3	JE1DXC	July 14-27	I746
Trindade Island	PY0	PY0TUP	Apr.-Aug.	I731
Turks & Caicos	VP5NC		mid-July	I743
Vanuatu	YJ0AVH		14196 0230Z+	I742
Wallis-Futuna	FW	AA6LF	July 18-25	I745
Western Samoa	5W	AA6LF	July 7-12	I745
Yemen	7O	7O1AA	14243 1500Z	I738
Zone 2	VE8/VE2BQB		to Nov.	I740

Resident Amateurs on Regularly

DXCC Country	Callsign	Freq.	UTC
Albania	ZA1AJ	14028	2000Z+
Armenia	EK4JJ	14024	0330Z Wed.
Belarus	EU7HA	20M CW	0345Z
Bosnia-Herzegovina	T92X	10102	0000Z+
Bulgaria	LZ2LP	10105	0245Z
China	BZ5HAN	14190±	1150Z
China	BZ5HAN	20M CW	1040Z+
El Salvador	YS1DRF	7003	0100Z+
Greece	SV1AKX	14027	2330Z
Kuwait	9K2MU	14020±	22-0200Z
Macao	XX9AS	14193±	1300Z
Mauritius	3B8CF	10102	0345Z
Mauritius	3B8CF	7006±	0230Z+
Philippines	DU1UT	14190	1130Z+
Reunion Island	FR5DD	14024±	0330Z+



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St. Kitts	V44KAO	14027	0000Z+
Taiwan	BV2TA	14009	1100Z

Operating Events and DX Gatherings

Dates	Event	Reference:
July 9-10	IARU HF Championship	QST
July 9-10	BARTG AMTOR/PACTOR	Digital Journal
July 16-17	Colombia Independence Contest	CQ
July 29-30	Russian Contest	
July 30-31	YV CW Contest	I744
July 30-31	Islands On The Air Contest	CQ

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This Issue made possible by: AB4PW, AB8K, AD1C, CT1EEB, DC3MF, DXLoggen, DXNS, G3ZAY, JADXXN, K4BAI, K4II, K4IQJ, K5FUV, K5OVC, K8CV, K8JLF, KA7T, KG6AR, KM1E, KM9J, KZ0X, LNDX, N2GLH, N4UU, N9HUB, N9LAG, NL7TB, OPDX, W0GLG, W0JRN, W1AW, W4VQ, W6UQF, W6WKE, WA0IWF, WB3ECU, WB8ZRL, WJ2O, and WU6T; many thanks!